INTERNATIONAL SEARCH REPORT

International Application No PCT/EP2004/051573

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 F16L23/036 F16L37/12									
According to	o International Patent Classification (IPC) or to both national classificat	lion and IPC							
B. FIELDS SEARCHED									
Minimum documentation searched (classification system followed by classification symbols)									
IPC 7	F16L								
Documentat	ion searched other than minimum documentation to the extent that su	ich documents are included in the fields se	arched						
Electronic d	ata base consulted during the international search (name of data has	e and where practical search terms used	· · · · · · · · · · · · · · · · · · ·						
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal									
E1 0-111	ver na i								
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT								
Category °	Citation of document, with indication, where appropriate, of the rele	vant passages	Relevant to claim No.						
X	DE 28 33 866 A (MANNESMANN AG) 14 February 1980 (1980-02-14) claims 1,3 figure 1 page 3, paragraph 1	1-3							
·	page 4, paragraph 6 page 5, paragraph 1 page 5, paragraph 3 - page 6, paragraph 1								
X	DE 90 977 C (THE VACUUM BRAKE COM LTD.) 8 April 1897 (1897-04-08) claim 1 figures 1-3 page 1	1							
	_	/							
X Furti	her documents are listed in the continuation of box C.	Patent family members are listed i	n annex.						
° Special ca	ategories of cited documents:								
"T' later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention."									
E earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another clatation or other special reason (as specified) *L* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention *Y* document of particular relevance; the claimed invention									
citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *O* document referring to an oral disclosure, use, exhibition or other means *O* document is combined with one or more other such document is combined wit									
P document published prior to the international filing date but later than the priority date claimed in the art. *a document member of the same patent family									
	Date of the actual completion of the international search Date of mailing of the international search report								
<u> </u>	9 October 2004	02/11/2004							
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Authorized officer									
	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Jankowska, M							

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/051573

		 PCI/EPZC	004/051573	
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		I Dalaman in the	 ·
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
A	DE 43 18 831 A (PUTZMEISTER MASCHF) 8 December 1994 (1994-12-08) claims 1,7 figure 2 column 1, line 3 - line 12 column 2, line 25 - line 31 column 2, line 65 - column 3, line 9		1-3	
				·

1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP2004/051573

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
DE 2833866	A	14-02-1980	DE	2833866 A1	14-02-1980
DE 90977	С		NONE		
DE 4318831	Α	08-12-1994	DE	4318831 A1	08-12-1994